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PTO/SB/05 (11/00)

Approved for use through 10/31/2002 OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

Attorney Docket No. 674542-2003  
First Inventor Klaus Gregorius NIELSEN  
Title SYNTHETIC VACCINE AGENTS  
Express Mail Label No. EV 073646254 US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification (51 Pages) [Total Pages 59]  
(preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix.
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - 38 Claims, Pages 52-58
  - Abstract of the Disclosure, Page 59
- ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 1]
- ☒ Oath or Declaration [Total Pages 2]
- a. ☒ New (unsigned)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
- i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).
- ☐ Application Data Sheet. See 37 CFR 1.76.

7. ☐ CD-ROM or CD-R in duplicate, large table  
or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☐ Computer Readable Form (CFR)
- b. Specification sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☐ Assignment Papers (cover sheet & documents(s))
10. ☐ 37 CFR 3.73(b) Statement
- ☐ Power of Attorney  
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122(b)(2)(B)(i).  
Applicant must attach from PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: PCT/DK01/00113  
Filed February 19, 2001

☐ Continuation ☐ Divisional ☒ Continuation-in-part (CIP) of prior application No.: 09/785,215  
Examiner: To Be Assigned Group/Art Unit: 1645

**For CONTINUATION OR DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

☒ Customer Number or Bar Code Label 20999 (Insert Customer No. or Attach bar code label here) or ☐ Correspondence address below

Name Thomas J. Kowalski

|                   |   |                                   |                   |
|-------------------|---|-----------------------------------|-------------------|
| Name (Print/Type) | Thomas J. Kowalski  | Registration No. (Attorney/Agent) | 32,147            |
| Signature         |  | Date                              | February 19, 2002 |

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**FEE TRANSMITTAL**  
**for FY 2001**

Patent fees are subject to annual revision.

**Complete if Known**

|                      |                   |
|----------------------|-------------------|
| Application Number   | To Be Assigned    |
| Filing Date          | February 19, 2002 |
| First Named Inventor | NIELSEN           |
| Examiner Name        | To Be Assigned    |
| Group/Art Unit       | To Be Assigned    |
| Attorney Docket No.  | 674542-2003       |

TOTAL AMOUNT OF PAYMENT

(\$) 1232.00

**METHOD OF PAYMENT**1. ☒

The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit  
Account  
Name  
  
Deposit  
Account  
Number

Frommer Lawrence &amp; Haug LLP

50-0320

☒ Charge any Additional Fee Required  
Under 37 CFR 1.16 and 1.17☐ Charge the Issue Fee Set in 37 CFR  
1.18 at the Mailing of the Notice of  
Allowance2. ☒ Payment Enclosed☒ Check☐ Money Order☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

| Large<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Small<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Fee Description        | Fee Paid      |
|----------------------|-----------------------|----------------------|-----------------------|------------------------|---------------|
| 101                  | 740                   | 201                  | 370                   | Utility filing fee     | 740.00        |
| 106                  | 330                   | 206                  | 165                   | Design filing fee      |               |
| 107                  | 510                   | 207                  | 255                   | Plant filing fee       |               |
| 108                  | 740                   | 208                  | 370                   | Reissue filing fee     |               |
| 114                  | 160                   | 214                  | 80                    | Provisional filing fee |               |
| <b>SUBTOTAL (1)</b>  |                       |                      |                       |                        | <b>740.00</b> |

**2. EXTRA CLAIM FEES**

| Total<br>Claims    | Extra Claim | Fee from<br>below | Fee Paid |
|--------------------|-------------|-------------------|----------|
| 38                 | -20** = 18  | 18                | 324.00   |
| Ind.<br>Claims     | -3** = 2    | 84                | 168.00   |
| Multiple Dependent |             | 0                 | 0        |

\*\* or number previously paid, if greater; for reissues, see below

| Large<br>Fee<br>Code           | Entity<br>Fee<br>(\$) | Small<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Fee Description  |
|--------------------------------|-----------------------|----------------------|-----------------------|--|
| 103                            | 18                    | 203                  | 9                     | Claims in excess of 20                                     |
| 102                            | 84                    | 202                  | 42                    | Independent claims in excess of 3                          |
| 104                            | 280                   | 204                  | 140                   | Multiple dependent claim, if not paid                      |
| 109                            | 84                    | 209                  | 42                    | ** Reissue independent claims over original patent         |
| 110                            | 18                    | 210                  | 9                     | ** Reissue claims in excess of 20 and over original patent |
| 107                            | 510                   | 207                  | 255                   | Plant filing fee   |
| <b>SUBTOTAL (2)</b> (\$492.00) |                       |                      |                       |  |

**FEE CALCULATION****3. ADDITIONAL FEES**

| Large<br>Fee<br>Code      | Entity<br>Fee<br>(\$) | Small<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Fee Description  | Fee Paid |
|---------------------------|-----------------------|----------------------|-----------------------|--|----------|
| 105                       | 130                   | 205                  | 65                    | Surcharge - late filing fee or oath  |          |
| 127                       | 50                    | 227                  | 25                    | Surcharge - late provisional filing fee or Cover sheet                     |          |
| 139                       | 130                   | 139                  | 130                   | Non-English specification  |          |
| 147                       | 2,520                 | 147                  | 2,520                 | For filing a request of reexamination                                      |          |
| 112                       | 920*                  | 112                  | 920*                  | Requesting publication of SIR prior to Examiner action                     |          |
| 113                       | 1,840*                | 113                  | 1,840*                | Requesting publication of SIR after Examiner action                        |          |
| 115                       | 110                   | 215                  | 55                    | Extension for reply within first month                                     |          |
| 116                       | 400                   | 216                  | 200                   | Extension for reply within second month                                    |          |
| 117                       | 920                   | 217                  | 460                   | Extension for reply within third month                                     |          |
| 118                       | 1,440                 | 218                  | 720                   | Extension for reply within fourth month                                    |          |
| 128                       | 1,960                 | 228                  | 980                   | Extension for reply within fifth month                                     |          |
| 119                       | 320                   | 219                  | 160                   | Notice of Appeal   |          |
| 120                       | 320                   | 220                  | 160                   | Filing a brief in support of an appeal                                     |          |
| 121                       | 280                   | 221                  | 140                   | Request for oral hearing   |          |
| 138                       | 1,510                 | 138                  | 1,510                 | Petition to institute a public use Proceeding                              |          |
| 140                       | 110                   | 240                  | 55                    | Petition to revive - unavoidable   |          |
| 141                       | 1,280                 | 241                  | 640                   | Petition to revive- unintentional  |          |
| 142                       | 1,280                 | 242                  | 640                   | Utility issue fee (or reissue)   |          |
| 143                       | 460                   | 243                  | 230                   | Design issue fee   |          |
| 144                       | 620                   | 244                  | 310                   | Plant issue fee  |          |
| 122                       | 130                   | 122                  | 130                   | Petitions to the Commissioner  |          |
| 123                       | 50                    | 123                  | 50                    | Petitions related to provisional Applications                              |          |
| 126                       | 180                   | 126                  | 180                   | Submission of Information Disclosure Statement                             |          |
| 581                       | 40                    | 581                  | 40                    | Recording each patent assignment per property (times number of properties) |          |
| 146                       | 740                   | 246                  | 370                   | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 149                       | 740                   | 249                  | 370                   | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| Other fee (specify)       |                       |                      |                       |  |          |
| Other fee (specify)       |                       |                      |                       |  |          |
| <b>SUBTOTAL (3)</b> (\$)0 |                       |                      |                       |  |          |

\* Reduced by Basic Filing Fee

**SUBMITTED BY**

Typed or Printed Name

Thomas J. Kowalski

Signature

Date

2/19/02

**Complete (if applicable)**

Reg. Number

32,147

Deposit Account

50-0320

**WARNING: Information on this form may become public. credit card information should not be included on this form.****Provide credit card information and authorization on PTO-2038.**

**CERTIFICATE OF MAILING - SEPARATE PAPER - PATENT APPLICATION**

Attorney Docket No. : 674542-2003  
Title : **SYNTHETIC VACCINE AGENTS**  
Filed : February 19, 2002  
Applicant : NIELSEN et al.  
Mailed : Via Express Mail Label # EV 073646254 US

I hereby certify that the following items are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to:

Commissioner for Patents  
Washington, D.C. 20231  
Box Application

Enclosed: Utility Application Transmittal  
Fee Transmittal  
Application for Patent  
(59 total pages, 51 pages of specification numbered 1-52, 7 pages, p. 52-58, of claims numbered 1-38, one page abstract on page 59)  
Drawings (1 pages, Figures 1)  
Declaration for Patent Application and Power of Attorney (unsigned)  
Check Number 19933 in the amount of \$1232.00  
Return Receipt Postcard

Barnet Shindlman  
Typed/printed name of person mailing paper or fee

Barnet Shindlman  
Signature